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<110> OncoImmunin, Inc.

Komoriya, Akira

Packard, Beverly

<120> COMPOSITIONS FOR THE DETECTION OF ENZYME ACTIVITY IN BIOLOGICAL SAMPLES AND METHODS OF USE THEREOF

<130> 300-903820US

<140> US 09/394,019

<141> 1999-09-10

<150> PCT/US98/00300

<151> 1998-02-20

<150> US 08/802,981

<151> 1997-02-20

<160> 260

<170> PatentIn version 3.0

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Lys Asp Xaa Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
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Lys Asp Tyr Xaa Ala Asp Gly Ile Asp Pro Lys Gly Tyr
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Lys Asp Xaa Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
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<211> 16

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Lys Asp Xaa Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
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Gly Tyr

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<223> X is Aib or Pro

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Gly Tyr

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<400> 15

Lys Asp Tyr Asx Ala Asp Gly Ile Asp Pro Lys Gly Tyr
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Gly Tyr

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<211> 16

<212> PRT

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<211> 19

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<223> X is d form tetrahydroisoquinoline-3-carboxylic acid

<400> 18

Lys Asp Pro Xaa Gly Xaa Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro
1 5 10 15

Lys Gly Tyr

<210> 19

<211> 17

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1 5 10 15

Tyr

<210> 20

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Lys Asp Pro Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys Gly
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Tyr

<210> 21

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<223> X is epsilon amino caproic acid

<220>

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<222> (16)..(16)

<223> Blocked with amide

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1 5 10 15

<210> 22

<211> 18

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<222> (4)..(4)

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Lys Asp Pro Xaa Gly Glu Glu Val Glu Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 23

<211> 18

<212> PRT

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<223> X is epsilon amino caproic acid

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Gly Tyr

<210> 24

<211> 18

<212> PRT

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<222> (4)..(4)

<223> X is epsilon amino caproic acid

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Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 25

<211> 18

<212> PRT

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<220>

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<222> (4)..(4)

<223> X is epsilon amino caproic acid

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Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 26

<211> 18

<212> PRT

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Lys Asp Xaa Xaa Gly Asp Glu Val Asn Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 27

<211> 18

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<220>

<221> MOD_RES

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<223> X is epsilon amino caproic acid

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Lys Asp Xaa Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
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Gly Tyr

<210> 28

<211> 18

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<220>

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<220>

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<400> 28

Lys Asp Xaa Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 29

<211> 18

<212> PRT

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<220>

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<223> X is epsilon amino caproic acid

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1 5 10 15

Gly Tyr

<210> 30

<211> 19

<212> PRT

<213> Artificial

<220>

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<223> X is epsilon amino caproic acid

<220>

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<222> (3)..(3)

<223> X is alpha aminoisobutyric acid

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Lys Asp Xaa Xaa Xaa Gly Asp Glu Val Asp Gly Ile Asp Xaa Xaa Pro
1 5 10 15

Lys Gly Tyr

<210> 31

<211> 18

<212> PRT

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Lys Asp Xaa Xaa Gly Asn Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 32

<211> 18

<212> PRT

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<220>

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<400> 32

Lys Asp Xaa Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 33

<211> 18

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<220>

<221> MOD_RES

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Lys Asp Xaa Xaa Gly Asn Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

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<211> 18

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<222> (3)..(3)

<223> X is alpha aminoisobutyric acid

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Gly Tyr

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<223> X is epsilon amino caproic acid

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<223> X is alpha aminoisobutyric acid

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Lys Asp Xaa Xaa Gly Asn Glu Val Asn Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 36

<211> 19

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<222> (6)..(6)

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<220>

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<222> (15)..(15)

<223> X is epsilon aminocaproic acid

<220>

<221> MOD_RES

<222> (4)..(4)

<223> X is epsilon aminocaproic acid

<400> 36

Lys Asp Xaa Xaa Gly Xaa Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro
1 5 10 15

Lys Gly Lys

<210> 37

<211> 19

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<223> X is Aib

<220>

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<223> X is D form tetrahydroisoquinoline-3-carboxylic acid

<220>

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<222> (15)..(15)

<223> X is epsilon aminocaproic acid

<220>

<221> MOD_RES

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<400> 37

Lys Asp Xaa Xaa Gly Xaa Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro
1 5 10 15

Lys Gly Tyr

<210> 38

<211> 19

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<220>

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Lys Gly Tyr

<210> 39

<211> 19

<212> PRT

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<223> W is D form

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<222> (15)..(15)

<223> X is epsilon aminocaproic acid

<220>

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<223> X is epsilon aminocaproic acid

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Lys Gly Tyr

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<223> X is Aib

<220>

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<222> (6)..(7)

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<220>

<221> MOD_RES

<222> (16)..(16)

<223> X is epsilon aminocaproic acid

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<221> MOD_RES

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<223> X is epsilon aminocaproic acid

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Lys Asp Xaa Xaa Gly Xaa Xaa Asp Glu Val Asp Gly Ile Asp Gly Xaa
1 5 10 15

Pro Lys Gly Tyr
20

<210> 41

<211> 20

<212> PRT

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<223> W is D form

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<222> (4)..(4)

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Lys Asp Xaa Xaa Gly Trp Trp Asp Glu Val Asp Gly Ile Asp Gly Xaa
1 5 10 15

Pro Lys Gly Tyr
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<211> 14

<212> PRT

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<223> X is Aib

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Lys Asp Xaa Tyr Val Ala Asp Gly Ile Asp Pro Lys Gly Tyr
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<210> 43

<211> 14

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<223> Synthetic peptide substrate

<220>

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<222> (3)..(3)

<223> X is Aib

<400> 43

Lys Asp Xaa Tyr Val Ala Asp Gly Ile Asn Pro Lys Gly Tyr
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<210> 44

<211> 14

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<210> 45

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<212> PRT

<213> Artificial

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<223> X is Aib

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Lys Asp Xaa Gly Tyr Val Ala Asp Gly Ile Asp Gly Pro Lys Gly Tyr
1 5 10 15

<210> 46

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<213> Artificial

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<223> X is Aib

<400> 46

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1 5 10 15

<210> 47

<211> 16

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<220>

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<222> (4)..(4)

<223> X is epsilon aminocaproic acid

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Lys Asp Xaa Xaa Gly Tyr Val Ala Asp Gly Ile Asp Gly Xaa Pro Lys
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Gly Tyr

<210> 49

<211> 18

<212> PRT

<213> Artificial

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<221> MOD_RES

<222> (4)..(4)

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Lys Asp Xaa Xaa Gly Tyr Val Ala Asn Gly Ile Asp Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

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<211> 18

<212> PRT

<213> Artificial

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<223> Synthetic peptide substrate

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<223> X is epsilon aminocaproic acid

<220>

<221> MOD_RES

<222> (4)..(4)

<223> X is epsilon aminocaproic acid

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Lys Asp Xaa Xaa Gly Tyr Val Ala Asn Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 51

<211> 18

<212> PRT

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<223> X is epsilon aminocaproic acid

<400> 51

Lys Asp Xaa Xaa Gly Tyr Val Ala Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 52

<211> 18

<212> PRT

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<400> 52

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1 5 10 15

Gly Tyr

<210> 53

<211> 17

<212> PRT

<213> Artificial

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<223> X is episilon-aminocaproic acid

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<222> (4)..(4)

<223> X is epsilon aminocaproic acid

<400> 53

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Tyr

<210> 54

<211> 17

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<400> 54

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Tyr

<210> 55

<211> 14

<212> PRT

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<220>

<223> Synthetic peptide substrate

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<223> X is Aib

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<210> 56

<211> 16

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<210> 57

<211> 18

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<400> 57

Lys Asp Xaa Xaa Gly Leu Val Glu Ile Asp Asn Gly Gly Xaa Pro Lys
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Gly Tyr

<210> 58

<211> 18

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<400> 58

Lys Asp Xaa Xaa Gly Leu Val Glu Ile Asn Asn Gly Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 59

<211> 18

<212> PRT

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<400> 59

Lys Asp Pro Xaa Gly Ile Glu Thr Glu Ser Gly Val Gly Xaa Pro Lys
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Gly Tyr

<210> 60

<211> 16

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<210> 61

<211> 16

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Lys Asp Pro Xaa Gly Ile Glu Thr Glu Ser Gly Xaa Pro Lys Gly Tyr
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<210> 62

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Lys Asp Xaa Gly Ile Glu Thr Asp Ser Gly Val Asp Asp Pro Lys Gly
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Tyr

<210> 63

<211> 17

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<223> X is Aib

<400> 63

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Tyr

<210> 64

<211> 19

<212> PRT

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Lys Gly Tyr

<210> 65

<211> 17

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Tyr

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<211> 17

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<400> 66

Lys Asp Xaa Xaa Gly Ile Glu Thr Asp Ser Gly Val Xaa Pro Lys Gly
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Tyr

<210> 67

<211> 17

<212> PRT

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<400> 67

Lys Asp Xaa Xaa Gly Ile Glu Thr Asn Ser Gly Val Xaa Pro Lys Gly
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Tyr

<210> 68

<211> 19

<212> PRT

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<222> (4)..(4)

<223> X is epsilon aminocaproic acid

<400> 68

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Lys Gly Tyr

<210> 69

<211> 19

<212> PRT

<213> Artificial

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<400> 69

Lys Asp Xaa Xaa Gly Gly Ile Glu Thr Asn Ser Gly Val Gly Xaa Pro
1 5 10 15

Lys Gly Tyr

<210> 70

<211> 19

<212> PRT

<213> Artificial

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<223> X is Aib

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Lys Gly Tyr

<210> 71

<211> 17

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Tyr

<210> 72

<211> 19

<212> PRT

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<400> 72

Lys Asp Xaa Xaa Gly Gly Ser Glu Ser Met Asp Ser Gly Gly Xaa Pro
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Lys Gly Tyr

<210> 73

<211> 19

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<400> 73

Lys Asp Xaa Xaa Gly Asp Val Val Cys Cys Ser Met Ser Gly Xaa Pro
1 5 10 15

Lys Gly Tyr

<210> 74

<211> 19

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<400> 74

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Lys Gly Tyr

<210> 75

<211> 19

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Lys Asp Xaa Xaa Gly Asp Val Val Cys Cys Ser Met Ser Gly Xaa Pro
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Lys Gly Tyr

<210> 76

<211> 19

<212> PRT

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Lys Asp Xaa Xaa Gly Asp Val Val Cys Asp Ser Met Ser Gly Xaa Pro
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Lys Gly Tyr

<210> 77

<211> 19

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Lys Asp Xaa Xaa Gly Asp Val Val Cys Cys Pro Met Ser Gly Xaa Pro
1 5 10 15

Lys Gly Tyr

<210> 78

<211> 18

<212> PRT

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<400> 78

Lys Asp Xaa Xaa Gly Glu Asp Val Val Cys Cys Ser Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 79

<211> 18

<212> PRT

<213> Artificial

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Lys Asp Xaa Xaa Gly Glu Asp Val Val Cys Asp Ser Gly Xaa Pro Lys
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Gly Tyr

<210> 80

<211> 18

<212> PRT

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<400> 80

Lys Asp Xaa Xaa Gly Glu Asp Val Val Cys Cys Pro Gly Xaa Pro Lys
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Gly Tyr

<210> 81

<211> 18

<212> PRT

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<223> X is epsilon aminocaproic acid

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Lys Asp Xaa Xaa Gly Glu Asp Val Val Cys Asp Pro Gly Xaa Pro Lys
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Gly Tyr

<210> 82

<211> 19

<212> PRT

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Lys Asp Xaa Xaa Gly Asp Val Val Cys Cys Ser Met Ser Gly Xaa Pro
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Lys Gly Tyr

<210> 83

<211> 19

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Lys Gly Tyr

<210> 84

<211> 19

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Lys Asp Xaa Xaa Gly Asp Val Val Cys Cys Pro Met Ser Gly Xaa Pro
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Lys Gly Tyr

<210> 85

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Gly Tyr

<210> 86

<211> 18

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Lys Asp Xaa Xaa Gly Asp Val Val Cys Asp Ser Met Gly Xaa Pro Lys
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Gly Tyr

<210> 87

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Lys Gly Tyr

<210> 90

<211> 19

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Lys Gly Tyr

<210> 91

<211> 19

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<400> 91

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Lys Gly Tyr

<210> 92

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Gly Tyr

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<400> 93

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Gly Tyr

<210> 94

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Lys Asp Xaa Xaa Gly Glu Met Glu Glu Asp Ser Gln His Leu Pro Lys
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Gly Tyr

<210> 95

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Lys Gly Tyr

<210> 96

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Lys Gly Tyr

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<223> X is epsilon aminocaproic acid

<400> 97

Lys Asp Xaa Xaa Gly Glu Met Glu Glu Asp Ser Gln His Leu Gly Pro
1 5 10 15

Lys Gly Tyr

<210> 98

<211> 20

<212> PRT

<213> Artificial

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<223> X is epsilon aminocaproic acid

<400> 98

Lys Asp Xaa Xaa Gly Glu Met Glu Glu Cys Ser Gln His Leu Gly Xaa
1 5 10 15

Pro Lys Gly Tyr
20

<210> 99

<211> 20

<212> PRT

<213> Artificial

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<400> 99

Lys Asp Xaa Xaa Gly Glu Met Glu Glu Cys Pro Gln His Leu Gly Xaa
1 5 10 15

Pro Lys Gly Tyr
20

<210> 100

<211> 20

<212> PRT

<213> Artificial

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Lys Asp Xaa Xaa Gly Glu Met Glu Glu Asp Ser Gln His Leu Gly Xaa
1 5 10 15

Pro Lys Gly Tyr
20

<210> 101

<211> 17

<212> PRT

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<223> X is epsilon aminocaproic acid

<400> 101

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Thr Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 102

<211> 17

<212> PRT

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<223> Synthetic peptide substrate

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<223> X is epsilon aminocaproic acid

<400> 102

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Thr Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 103

<211> 17

<212> PRT

<213> Artificial

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<223> X is epsilon aminocaproic acid

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Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Thr Gly Xaa Pro Lys Gly
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Tyr

<210> 104

<211> 17

<212> PRT

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Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Thr Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 105

<211> 16

<212> PRT

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Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Gly Xaa Pro Lys Gly Tyr
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<210> 106

<211> 17

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Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Gly Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 107

<211> 17

<212> PRT

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<223> X is epsilon aminocaproic acid

<400> 107

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Gly Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 108

<211> 8

<212> PRT

<213> Artificial

<220>

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<222> (4)..(4)

<223> X is epsilon aminocaproic acid

<220>

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<222> (1)..(1)

<223> K is blocked with Fmoc

<400> 108

Lys Asp Pro Xaa Thr Gly Arg Thr
1 5

<210> 109

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<222> (1)..(1)

<223> D is blocked with Fmoc

<400> 109

Asp Pro Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1 5 10

<210> 110

<211> 15

<212> PRT

<213> Artificial

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<223> Synthetic peptide substrate

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<223> K is blocked with Fmoc

<220>

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<222> (11)..(11)

<223> X is episilon-aminocaproic acid

<400> 110

Lys Asp Pro Val Met Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 111

<211> 13

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

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<222> (9)..(9)

<223> X is episilon-aminocaproic acid

<400> 111

Lys Asp Pro Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1 5 10

<210> 112

<211> 15

<212> PRT

<213> Artificial

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<223> Synthetic peptide substrate

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<222> (11)..(11)

<223> X is episilon-aminocaproic acid

<400> 112

Lys Asp Pro Xaa Gly Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 113

<211> 14

<212> PRT

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<222> (4)..(4)

<223> X is epsilon aminocaproic acid

<400> 113

Lys Asp Pro Xaa Gly Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1 5 10

<210> 114

<211> 13

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<223> K is blocked with Fmoc

<400> 114

Lys Asp Pro Gly Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1 5 10

<210> 115

<211> 14

<212> PRT

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<223> X is epsilon aminocaproic acid

<220>

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<222> (10)..(10)

<223> X is episilon-aminocaproic acid

<400> 115

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1 5 10

<210> 116

<211> 13

<212> PRT

<213> Artificial

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<222> (4)..(4)

<223> X is 4-aminobutyric acid

<400> 116

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1 5 10

<210> 117

<211> 13

<212> PRT

<213> Artificial

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<223> Synthetic peptide substrate

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<222> (4)..(4)

<223> X is 8-aminobutyric acid

<400> 117

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1 5 10

<210> 118

<211> 17

<212> PRT

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<222> (13)..(13)

<223> X is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (4)..(4)

<223> X is epsilon aminocaproic acid

<400> 118

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Val Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 119

<211> 17

<212> PRT

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<222> (7)..(7)

<223> M is D form

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<222> (4)..(4)

<223> X is epsilon aminocaproic acid

<400> 119

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Val Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 120

<211> 17

<212> PRT

<213> Artificial

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<220>

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<222> (4)..(4)

<223> X is epsilon aminocaproic acid

<400> 120

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Ala Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 121

<211> 17

<212> PRT

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<222> (7)..(7)

<223> M is D form

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<221> MOD_RES

<222> (4)..(4)

<223> X is epsilon aminocaproic acid

<400> 121

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Ala Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 122

<211> 26

<212> PRT

<213> Artificial

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<223> X is epsilon aminocaproic acid

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<222> (22)..(22)

<223> X is epsilon aminocaproic acid

<220>

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<222> (1)..(1)

<223> K is blocked with Fmoc

<400> 122

Lys Asp Pro Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
1 5 10 15

Pro Lys Gly Tyr Gly Xaa Pro Lys Gly Tyr
20 25

<210> 123

<211> 20

<212> PRT

<213> Artificial

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<223> Synthetic peptide substrate

<220>

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<223> K is blocked with Fmoc

<220>

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<223> X is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (7)..(7)

<223> E is D form

<220>

<221> MOD_RES

<222> (10)..(10)

<223> L is D form

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<223> F is D form

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<221> MOD_RES

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<223> X is epsilon aminocaproic acid

<400> 123

Lys Asp Pro Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
1 5 10 15

Pro Lys Gly Tyr
20

<210> 124

<211> 20

<212> PRT

<213> Artificial

<220>

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<222> (10)..(10)

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<220>

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<222> (14)..(14)

<223> F is D form

<220>

<221> MOD_RES

<222> (4)..(4)

<223> X is epsilon aminocaproic acid

<400> 124

Lys Asp Pro Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
1 5 10 15

Pro Lys Gly Tyr
20

<210> 125

<211> 21

<212> PRT

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<220>

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<222> (4)..(4)

<223> X is epsilon aminocaproic acid

<400> 125

Lys Asp Xaa Xaa Gly Ser Glu Val Asn Leu Asp Ala Glu Phe Gly Xaa
1 5 10 15

Pro Lys Asp Asp Tyr
20

<210> 126

<211> 21

<212> PRT

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<223> Synthetic peptide substrate

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<220>

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<222> (4)..(4)

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<400> 126

Lys Asp Xaa Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
1 5 10 15

Pro Lys Asp Asp Tyr
20

<210> 127

<211> 21

<212> PRT

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<223> Synthetic peptide substrate

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<222> (4)..(4)

<223> X is epsilon aminocaproic acid

<400> 127

Lys Asp Xaa Xaa Gly Ser Glu Val Lys Met Asp Ala Glu Phe Gly Xaa
1 5 10 15

Pro Lys Asp Asp Tyr
20

<210> 128

<211> 21

<212> PRT

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<400> 128

Lys Asp Xaa Xaa Gly Ser Glu Val Lys Met Asp Asp Glu Phe Gly Xaa
1 5 10 15

Pro Lys Asp Asp Tyr
20

<210> 129

<211> 21

<212> PRT

<213> Artificial

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<222> (4)..(4)

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<400> 129

Lys Asp Xaa Xaa Gly Ser Glu Val Asn Leu Asp Asp Glu Phe Gly Xaa
1 5 10 15

Pro Lys Asp Asp Tyr
20

<210> 130

<211> 23

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<223> X is epsilon aminocaproic acid

<400> 130

Lys Asp Xaa Xaa Gly Gly Val Val Ile Ala Thr Val Ile Val Ile Thr
1 5 10 15

Gly Xaa Pro Lys Asp Asp Tyr
20

<210> 131

<211> 24

<212> PRT

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<223> X is episilon-aminocaproic acid

<220>

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<222> (4)..(4)

<223> X is epsilon aminocaproic acid

<400> 131

Lys Asp Xaa Xaa Gly Tyr Gly Val Val Ile Ala Thr Val Ile Val Ile
1 5 10 15

Thr Gly Xaa Pro Lys Asp Asp Tyr
20

<210> 132

<211> 18

<212> PRT

<213> Artificial

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<400> 132

Lys Asp Xaa Xaa Gly Val Ile Ala Thr Val Ile Gly Xaa Pro Lys Asp
1 5 10 15

Asp Tyr

<210> 133

<211> 18

<212> PRT

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<223> X is epsilon aminocaproic acid

<400> 133

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1 5 10 15

Asp Tyr

<210> 134

<211> 15

<212> PRT

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<222> (4)..(5)

<223> X is epsilon aminocaproic acid

<400> 134

Lys Asp Xaa Xaa Xaa Gln Gln Leu Leu His Asn Xaa Xaa Pro Lys
1 5 10 15

<210> 135

<211> 15

<212> PRT

<213> Artificial

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<222> (4)..(4)

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<400> 135

Lys Asp Xaa Xaa Gly Gln Gln Leu Leu His Asn Gly Xaa Pro Lys
1 5 10 15

<210> 136

<211> 13

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (3)..(3)

<223> X is Aib

<400> 136

Lys Asp Xaa Gly Gln Gln Leu Leu His Asn Gly Pro Lys
1 5 10

<210> 137

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<222> (3)..(3)

<223> X is Aib

<400> 137

Lys Asp Xaa Gln Gln Leu Leu His Asn Pro Lys
1 5 10

<210> 138

<211> 15

<212> PRT

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<223> Synthetic peptide substrate

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<222> (4)..(5)

<223> X is epsilon aminocaproic acid

<400> 138

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1 5 10 15

<210> 139

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Lys Asp Xaa Xaa Gly Ser Ile Gln Tyr Thr Tyr Gly Xaa Pro Lys
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<210> 140

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<223> Synthetic peptide substrate

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<222> (3)..(3)

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<400> 140

Lys Asp Xaa Gly Ser Ile Gln Tyr Thr Tyr Gly Pro Lys
1 5 10

<210> 141

<211> 11

<212> PRT

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<223> Synthetic peptide substrate

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<223> X is Aib

<400> 141

Lys Asp Xaa Ser Ile Gln Tyr Thr Tyr Pro Lys
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<210> 142

<211> 15

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<222> (4)..(5)

<223> X is epsilon aminocaproic acid

<400> 142

Lys Asp Xaa Xaa Xaa Ser Ser Gln Tyr Ser Asn Xaa Xaa Pro Lys
1 5 10 15

<210> 143

<211> 15

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (3)..(3)

<223> X is Aib

<220>

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<222> (13)..(13)

<223> X is episilon-aminocaproic acid

<220>

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<222> (4)..(4)

<223> X is epsilon aminocaproic acid

<400> 143

Lys Asp Xaa Xaa Gly Ser Ser Gln Tyr Ser Asn Gly Xaa Pro Lys
1 5 10 15

<210> 144

<211> 13

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (3)..(3)

<223> X is Aib

<400> 144

Lys Asp Xaa Gly Ser Ser Gln Tyr Ser Asn Gly Pro Lys
1 5 10

<210> 145

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<222> (3)..(3)

<223> X is Aib

<400> 145

Lys Asp Xaa Ser Ser Gln Tyr Ser Asn Pro Lys
1 5 10

<210> 146

<211> 15

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<222> (4)..(5)

<223> X is epsilon aminocaproic acid

<400> 146

Lys Asp Xaa Xaa Xaa Ser Ser Ile Tyr Ser Gln Xaa Xaa Pro Lys

1 5 10 15

<210> 147

<211> 15

<212> PRT

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<223> Synthetic peptide substrate

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<220>

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<222> (13)..(13)

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<220>

<221> MOD_RES

<222> (4)..(4)

<223> X is epsilon aminocaproic acid

<400> 147

Lys Asp Xaa Xaa Gly Ser Ser Ile Tyr Ser Gln Gly Xaa Pro Lys
1 5 10 15

<210> 148

<211> 13

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (3)..(3)

<223> X is Aib

<400> 148

Lys Asp Xaa Gly Ser Ser Ile Tyr Ser Gln Gly Pro Lys
1 5 10

<210> 149

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (3)..(3)

<223> X is Aib

<400> 149

Lys Asp Xaa Ser Ser Ile Tyr Ser Gln Pro Lys
1 5 10

<210> 150

<211> 20

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (4)..(4)

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<222> (16)..(16)

<223> X is episilon-aminocaproic acid

<220>

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<222> (1)..(1)

<223> K is blocked with Fmoc

<400> 150

Lys Asp Pro Xaa Gly Ser Glu Val Asn Leu Asp Ala Glu Phe Gly Xaa
1 5 10 15

Pro Lys Gly Tyr
20

<210> 151

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (14)..(14)

<223> X is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (4)..(4)

<223> X is epsilon aminocaproic acid

<400> 151

Lys Asp Pro Xaa Gly Leu Glu His Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 152

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

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<222> (14)..(14)

<223> X is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (4)..(4)

<223> X is epsilon aminocaproic acid

<400> 152

Lys Asp Pro Xaa Gly Leu Glu Thr Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 153

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<223> K is blocked with Fmco

<220>

<221> MOD_RES

<222> (14)..(14)

<223> X is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (4)..(4)

<223> X is epsilon aminocaproic acid

<400> 153

Lys Asp Pro Xaa Gly Trp Glu His Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 154

<211> 15

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (11)..(11)

<223> X is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (4)..(4)

<223> X is epsilon aminocaproic acid

<400> 154

Lys Asp Pro Xaa Gly Tyr Val His Asp Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 155

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<223> K is blocked with Fmoc

<220>

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<222> (14)..(14)

<223> X is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (4)..(4)

<223> X is epsilon aminocaproic acid

<400> 155

Lys Asp Pro Xaa Gly Tyr Val His Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 156

<211> 14

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (4)..(4)

<223> X is epsilon aminocaproic acid

<400> 156

Lys Asp Pro Xaa Gly Tyr Val His Asp Ala Pro Lys Gly Tyr
1 5 10

<210> 157

<211> 16

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (12)..(12)

<223> X is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (4)..(4)

<223> X is epsilon aminocaproic acid

<400> 157

Lys Asp Pro Xaa Gly Ile Glu Pro Asp Ser Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 158

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (14)..(14)

<223> X is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (4)..(4)

<223> X is epsilon aminocaproic acid

<400> 158

Lys Asp Pro Xaa Gly Pro Leu Gly Ile Ala Gly Ile Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 159

<211> 19

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (15)..(15)

<223> X is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (4)..(4)

<223> X is epsilon aminocaproic acid

<400> 159

Lys Asp Pro Xaa Gly Ser Gln Asn Tyr Pro Ile Val Gln Gly Xaa Pro
1 5 10 15

Lys Gly Tyr

<210> 160

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fa

<220>

<221> MOD_RES

<222> (14)..(14)

<223> X is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (4)..(4)

<223> X is epsilon aminocaproic acid

<400> 160

Lys Asp Pro Xaa Gly Glu Asp Val Val Cys Cys Ser Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 161

<211> 10

<212> PRT

<213> Artificial

<220>

<223> Peptide spacer

<400> 161

Asp Gly Ser Gly Gly Gly Glu Asp Glu Lys
1 5 10

<210> 162

<211> 7

<212> PRT

<213> Artificial

<220>

<223> peptide spacer

<400> 162

Lys Glu Asp Gly Gly Asp Lys
1 5

<210> 163

<211> 8

<212> PRT

<213> Artificial

<220>

<223> Peptide spacer

<220>

<221> Artificial

<222> (1)..(8)

<223> Spacer

<400> 163

Asp Gly Ser Gly Glu Asp Glu Lys
1 5

<210> 164

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Peptide spacer

<220>

<221> Artificial

<222> (1)..(9)

<223> Spacer

<400> 164

Lys Glu Asp Glu Gly Ser Gly Asp Lys
1 5

<210> 165

<211> 8

<212> PRT

<213> Artificial

<220>

<223> protease inhibitor

<400> 165

Asp Val Val Cys Cys Ser Met Ser
1 5

<210> 166

<211> 7

<212> PRT

<213> artificial

<220>

<223> protease inhibitor

<220>

<221> MOD_RES

<222> (6)..(6)

<223> d amino acid

<400> 166

Asp Val Val Cys Pro Met Ser
1 5

<210> 167

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (5)..(5)

<223> X is norleucine

<400> 167

Asp Ala Ile Pro Xaa Ser Ile Pro Cys
1 5

<210> 168

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (5)..(5)

<223> X is norleucine

<400> 168

Asp Ala Ile Pro Xaa Ser Ile Pro Lys Gly Tyr
1 5 10

<210> 169

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<221> misc_feature

<223> Artificial = synthetic protease indicator

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<222> (9)..(9)

<223> K is derivatized with fluorophore

<220>

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<222> (1)..(1)

<223> D is derivatized with fluorophore

<400> 169

Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 170

<211> 12

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> misc_feature

<223> Artificial = synthetic protease indicator

<220>

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<222> (1)..(1)

<223> P is derivatized with fluorophore

<220>

<221> MOD_RES

<222> (10)..(10)

<223> K is derivatized with fluorophore

<400> 170

Pro Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 171

<211> 12

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<221> misc_feature

<223> Artificial sequence = synthetic protease indicator

<220>

<221> MOD_RES

<222> (6)..(6)

<223> X is norleucine (Nlu)

<220>

<221> MOD_RES

<222> (10)..(10)

<223> K is derivatized with fluorophore

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is derivatized with fluorophore

<400> 171

Lys Asp Ala Ile Pro Xaa Ser Ile Pro Lys Gly Tyr
1 5 10

<210> 172

<211> 12

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (1)..(1)

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<220>

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<222> (10)..(10)

<223> K is derivatized with fluorophore

<220>

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<222> (6)..(6)

<223> X is norleucine (Nlu)

<400> 172

Lys Asp Ala Ile Pro Xaa Ser Ile Pro Lys Gly Tyr
1 5 10

<210> 173

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<223> Artificial Sequence = synthetic protease indicator

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<222> (1)..(1)

<223> D is blocked wiht Fmoc

<220>

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<222> (5)..(5)

<223> X is norleucine (Nlu)

<220>

<221> MOD_RES

<222> (9)..(9)

<223> K is derivatized with fluorophore

<400> 173

Asp Ala Ile Pro Xaa Ser Ile Pro Lys Gly Tyr
1 5 10

<210> 174

<211> 14

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<221> misc_feature

<223> ARTIFICIAL = synthetic protease indicator

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<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is derivatized with fluorophore

<220>

<221> MOD_RES

<222> (12)..(12)

<223> K is derivatized with fluorophore

<400> 174

Lys Asp Asx Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 175

<211> 14

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<223> Artificial = synthetic protease indicator

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<222> (1)..(1)

<223> K is derivatized with fluorophore

<220>

<221> misc_feature

<222> (12)..(12)

<223> K is derivatized with fluorophore

<400> 175

Lys Asp Asx Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 176

<211> 14

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<223> ARTIFICIAL/UNKNOWN = synthetic protease indicator

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<220>

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<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (12)..(12)

<223> K is derivatized with fluroophore

<400> 176

Lys Asp Asx Asp Glu Val Asn Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 177

<211> 14

<212> PRT

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<223> Synthetic peptide substrate

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<223> ARTIFICIAL/UNKNOWN = synthetic protease indicator

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<223> K is derivatized with fluorophore

<220>

<221> misc_feature

<222> (12)..(12)

<223> K is derivatized with fluorophore

<400> 177

Lys Asp Asx Asp Glu Val Asn Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 178

<211> 13

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> misc_feature

<223> ARTIFICIAL/UNKNOWN = synthetic protease indicator

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<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (11)..(11)

<223> K is derivatized with fluorophore

<400> 178

Lys Asp Asx Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr

1 5 10

<210> 179

<211> 13

<212> PRT

<213> Artificial

<220>

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<220>

<221> misc_feature

<223> ARTIFICIAL/UNKNOWN = synthetic protease indicator

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is derivatized with fluorophore

<220>

<221> MOD_RES

<222> (11)..(11)

<223> K is derivatized with fluorophore

<400> 179

Lys Asp Tyr Asx Ala Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 180

<211> 16

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<221> misc_feature

<223> ARTIFICIAL/UNKNOWN = synthetic protease indicator

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<220>

<221> MOD_RES

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<223> K is derivatized with fluorophore

<220>

<221> MOD_RES

<222> (14)..(14)

<223> K is derivatized with fluorophore

<400> 180

Lys Asp Asx Gly Asp Glu Val Asp Gly Ile Asp Gly Pro Lys Gly Tyr
1 5 10 15

<210> 181

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> misc_feature

<223> ARTIFICIAL/UNKNOWN = synthetic protease indicator

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<223> K is blocked with Fmoc

<220>

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<223> K is derivatized with fluorophore

<220>

<221> MOD_RES

<222> (16)..(16)

<223> K is derivatized with fluorophore

<220>

<221> MOD_RES

<222> (14)..(14)

<223> X is episilon aminocaproic acid

<220>

<221> MOD_RES

<222> (4)..(4)

<223> X is episilon aminocaproic acid

<400> 181

Lys Asp Asx Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 182

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is derivatized with benzyloxycarbonyl group

<220>

<221> MOD_RES

<222> (4)..(4)

<223> X is episilon aminocaproic acid

<220>

<221> MOD_RES

<222> (14)..(14)

<223> X is episilon aminocaproic acid

<220>

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<223> ARTIFICIAL/UNKNOWN = synthetic protease indicator

<220>

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<222> (1)..(1)

<223> K is derivatized with fluorophore

<220>

<221> MOD_RES

<222> (16)..(16)

<223> K is derivatized with fluorophore

<400> 182

Lys Asp Asx Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 183

<211> 13

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> misc_feature

<223> ARTIFICIAL/UNKNOWN = synthetic protease indicator

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<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is derivatized with fluorophore

<220>

<221> MOD_RES

<222> (11)..(11)

<223> K is derivatized with fluorophore

<400> 183

Lys Asp Tyr Asx Ala Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 184

<211> 13

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<223> ARTIFICIAL/UNKNOWN = synthetic protease indicator

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<223> K is derivatized with fluorophore

<220>

<221> MOD_RES

<222> (11)..(11)

<223> K is derivatized with fluorophore

<400> 184

Lys Asp Asx Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 185

<211> 12

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<220>

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<220>

<221> MOD_RES

<222> (10)..(10)

<223> K is derivatized with fluorophore

<220>

<221> MOD_RES

<222> (6)..(6)

<223> X is norleucine (Nlu)

<400> 185

Lys Asp Ala Ile Pro Xaa Ser Ile Pro Lys Gly Tyr
1 5 10

<210> 186

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> misc_feature

<223> Artificial/Unknown = synthetic protease indicator

<220>

<221> MOD_RES

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<223> K is blocked with Fmoc

<220>

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<222> (1)..(1)

<223> K is derivatized with fluorophore

<220>

<221> MOD_RES

<222> (16)..(16)

<223> K is derivatized with fluorophore

<220>

<221> MOD_RES

<222> (4)..(4)

<223> X is episilon aminocaproic acid

<220>

<221> MOD_RES

<222> (14)..(14)

<223> X is episilon aminocaproic acid

<400> 186

Lys Asp Asx Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 187

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> misc_feature

<223> Artificial/Unknown = synthetic protease indicator

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<220>

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<220>

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<222> (16)..(16)

<223> K is derivatized with fluorophore

<220>

<221> MOD_RES

<222> (4)..(4)

<223> X is episilonaminocaproic acid

<220>

<221> MOD_RES

<222> (14)..(14)

<223> X is episilonaminocaproic acid

<400> 187

Lys Asp Asx Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 188

<211> 14

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> misc_feature

<223> Artificial/Unknown = synthetic protease indicator

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is derivatized with a fluorophore

<220>

<221> MOD_RES

<222> (12)..(12)

<223> K is derivatized with a fluorophore

<400> 188

Lys Asp Asx Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 189

<211> 8

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> misc_feature

<223> Artificial/Unknown = central protease recognition domain

<400> 189

Gly Asp Glu Val Asp Gly Ile Asp

1 5

<210> 190

<211> 4

<212> PRT

<213> Artificial

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<223> Synthetic peptide substrate

<220>

<221> misc_feature

<223> Artificial/Unknown = tetrapeptide core

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<223> X is alpha aminobutyric acid (Aib)

<400> 190

Lys Asp Xaa Gly
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<210> 191

<211> 5

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> misc_feature

<223> Artificial/Unknown = pentapeptide core

<220>

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<223> X is alpha aminobutyric acid (Aib)

<220>

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<222> (4)..(4)

<223> X is episilonaminocaproic acid

<400> 191

Lys Asp Xaa Xaa Gly
1 5

<210> 192

<211> 4

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<223> Artificial/Unknown = CDR domain

<220>

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<222> (2)..(2)

<223> X is alpha episilonaminocaproic acid

<400> 192

Gly Xaa Pro Lys
1

<210> 193

<211> 14

<212> PRT

<213> Artificial

<220>

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<223> Artificial/Unknown = synthetic protease indicator

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<223> K is blocked with Fmoc

<220>

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<223> K is derivatized with fluorophore

<220>

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<222> (12)..(12)

<223> K is derivatized with fluorophore

<400> 193

Lys Asp Asx Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 194

<211> 14

<212> PRT

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<220>

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<220>

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<223> K is derivatized with fluorophore

<220>

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<223> K is derivatized with fluorophore

<400> 194

Lys Asp Asx Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 195

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<223> Artificial/Unknown = synthetic protease indicator

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<220>

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<222> (1)..(1)

<223> K is derivatized with fluorophore

<220>

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<222> (16)..(16)

<223> K is derivatized with fluorophore

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<222> (4)..(4)

<223> X is episilonaminocaproic acid

<220>

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<222> (14)..(14)

<223> X is episilonaminocaproic acid

<400> 195

Lys Asp Asx Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 196

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> Artificial

<222> (1)..(7)

<223> Artificial synthethic protease substrate

<400> 196

Asp Glu Val Asp Gly Ile Asn
1 5

<210> 197

<211> 8

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (1)..(1)

<223> X is D form of tetrahydroisoquinoline-3-carboxylic acid

<400> 197

Xaa Asp Glu Val Asp Gly Ile Asn
1 5

<210> 198

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (1)..(7)

<223> Artificial protease substrate

<400> 198

Asp Glu Val Asp Gly Ile Asp
1 5

<210> 199

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (1)..(7)

<223> Artificial protease substrate

<400> 199

Leu Val Glu Ile Asp Asn Gly
1 5

<210> 200

<211> 8

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (1)..(7)

<223> Artificial protease substrate

<400> 200

Gly Ile Glu Thr Glu Ser Gly Val
1 5

<210> 201

<211> 4

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (1)..(4)

<223> Artificial protease substrate

<400> 201

Thr Gly Arg Thr
1

<210> 202

<211> 6

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (1)..(6)

<223> Artificial protease substrate

<400> 202

Val Met Thr Gly Arg Thr
1 5

<210> 203

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (1)..(9)

<223> Artificial protease substrate

<400> 203

Ser Glu Val Lys Leu Asp Ala Glu Phe
1 5

<210> 204

<211> 9

<212> PRT

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<220>

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<223> E is D form

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<222> (9)..(9)

<223> L is D form

<220>

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<222> (5)..(5)

<223> L is D form

<400> 204

Ser Glu Val Lys Leu Asp Ala Glu Phe
1 5

<210> 205

<211> 7

<212> PRT

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<223> Synthetic peptide substrate

<220>

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<222> (1)..(7)

<223> Artificial peptide substrate

<400> 205

Glu Asp Val Val Cys Cys Ser
1 5

<210> 206

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (1)..(7)

<223> Artificial protease substrate

<400> 206

Glu Glu Val Glu Gly Ile Asn
1 5

<210> 207

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (2)..(2)

<223> F is D form

<400> 207

Asp Phe Val Asp Gly Ile Asn
1 5

<210> 208

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (1)..(1)

<223> D is D form

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<222> (4)..(4)

<223> D is D form

<400> 208

Asp Glu Val Asp Gly Ile Asn

1 5

<210> 209

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> Artificial

<222> (1)..(7)

<223> Artificial protease substrate

<400> 209

Leu Val Glu Ile Glu Asn Gly
1 5

<210> 210

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> Artificial

<222> (1)..(7)

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<400> 210

Gly Ile Glu Thr Asp Ser Gly
1 5

<210> 211

<211> 7

<212> PRT

<213> Artificial

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<223> Synthetic peptide substrate

<220>

<221> Artificial

<222> (1)..(7)

<223> Artificial protease substrate

<400> 211

Gly Ile Glu Thr Glu Ser Gly
1 5

<210> 212

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (1)..(7)

<223> Artificial protease substrate

<400> 212

Leu Glu His Asp Gly Ile Asn
1 5

<210> 213

<211> 7

<212> PRT

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<223> Synthetic peptide substrate

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<223> Artificial protease substrate

<400> 213

Leu Glu Thr Asp Gly Ile Asn
1 5

<210> 214

<211> 7

<212> PRT

<213> Artificial

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<223> Synthetic peptide substrate

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<222> (1)..(7)

<223> Artificial protease substrate

<400> 214

Trp Glu His Asp Gly Ile Asn
1 5

<210> 215

<211> 5

<212> PRT

<213> Artificial

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<223> Synthetic peptide substrate

<220>

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<222> (1)..(5)

<223> Artificial protease substrate

<400> 215

Tyr Val His Asp Gly
1 5

<210> 216

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> Artificial

<222> (1)..(7)

<223> Artificial protease substrate

<400> 216

Tyr Val His Asp Gly Ile Asn
1 5

<210> 217

<211> 5

<212> PRT

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<223> Synthetic peptide substrate

<220>

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<222> (1)..(5)

<223> Artificial protease substrate

<400> 217

Tyr Val His Asp Ala
1 5

<210> 218

<211> 5

<212> PRT

<213> Artificial

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<223> Synthetic peptide substrate

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<222> (1)..(5)

<223> Artificial protease substrate

<400> 218

Thr Gly Arg Thr Gly
1 5

<210> 219

<211> 9

<212> PRT

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<220>

<223> Synthetic peptide substrate

<220>

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<223> E is D form

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<222> (9)..(9)

<223> F is D form

<220>

<221> MOD_RES

<222> (5)..(5)

<223> L is D form

<400> 219

Ser Glu Val Lys Leu Asp Ala Glu Phe
1 5

<210> 220

<211> 5

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> Artificial

<222> (1)..(5)

<223> Artificial protease substrate

<400> 220

Ile Glu Pro Asp Ser
1 5

<210> 221

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> Artificial

<222> (1)..(5)

<223> Artificial protease substrate

<400> 221

Pro Leu Gly Ile Ala Gly Ile
1 5

<210> 222

<211> 8

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> Artificial

<222> (1)..(8)

<223> Artificial protease substrate

<400> 222

Ser Gln Asn Tyr Pro Ile Val Gln
1 5

<210> 223

<211> 4

<212> PRT

<213> artificial

<220>

<223> protease substrate

<400> 223

Gly Gly Gly Gly
1

<210> 224

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<223> K is blocked with Fmoc

<220>

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<222> (14)..(14)

<223> X is episilon-aminocaproic acid

<220>

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<222> (4)..(4)

<223> X is episilon-aminocaproic acid

<400> 224

Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 225

<211> 16

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (4)..(4)

<223> X is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (14)..(14)

<223> X is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (16)..(16)

<223> K is blocked with amide

<400> 225

Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

<210> 226

<211> 19

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (6)..(6)

<223> X is D form tetrahydroisoquinoline-3-carboxylic acid

<220>

<221> MOD_RES

<222> (4)..(4)

<223> X is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (15)..(15)

<223> X is episilon-aminocaproic acid

<400> 226

Lys Asp Pro Xaa Gly Xaa Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro
1 5 10 15

Lys Gly Tyr

<210> 227

<211> 17

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

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<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (4)..(4)

<223> X is episilon-aminocaproic acid

<400> 227

Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Pro Lys Gly
1 5 10 15

Tyr

<210> 228

<211> 17

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (13)..(13)

<223> X is episilon-aminocaproic acid

<400> 228

Lys Asp Pro Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 229

<211> 16

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

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<222> (4)..(4)

<223> X is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (14)..(14)

<223> X is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (16)..(16)

<223> K is blocked with amide

<400> 229

Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1 5 10 15

<210> 230

<211> 17

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

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<220>

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<222> (13)..(13)

<223> X is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<400> 230

Lys Asp Pro Xaa Gly Leu Val Glu Ile Asp Asn Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 231

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

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<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (4)..(4)

<223> X is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (14)..(14)

<223> X is episilon-aminocaproic acid

<400> 231

Lys Asp Pro Xaa Gly Ile Glu Thr Glu Ser Gly Val Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 232

<211> 13

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (4)..(4)

<223> X is episilon-aminocaproic acid

<400> 232

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1 5 10

<210> 233

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> D is blocked with Fmoc

<400> 233

Asp Pro Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1 5 10

<210> 234

<211> 15

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (11)..(11)

<223> X is episilon-aminocaproic acid

<400> 234

Lys Asp Pro Val Met Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 235

<211> 13

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (9)..(9)

<223> X is episilon-aminocaproic acid

<400> 235

Lys Asp Pro Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1 5 10

<210> 236

<211> 15

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (4)..(4)

<223> X is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (11)..(11)

<223> X is episilon-aminocaproic acid

<400> 236

Lys Asp Pro Xaa Gly Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 237

<211> 14

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (4)..(4)

<223> X is episilon-aminocaproic acid

<400> 237

Lys Asp Pro Xaa Gly Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1 5 10

<210> 238

<211> 13

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<400> 238

Lys Asp Pro Gly Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1 5 10

<210> 239

<211> 20

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (4)..(4)

<223> X is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (16)..(16)

<223> X is episilon-aminocaproic acid

<400> 239

Lys Asp Pro Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
1 5 10 15

Pro Lys Gly Tyr
20

<210> 240

<211> 21

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (14)..(14)

<223> F is D form

<220>

<221> MOD_RES

<222> (10)..(10)

<223> L is D form

<220>

<221> MOD_RES

<222> (7)..(7)

<223> E is D form

<220>

<221> MOD_RES

<222> (4)..(4)

<223> X is episilon-aminocaproic acid

<400> 240

Lys Asp Pro Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Cys
1 5 10 15

Pro Lys Asp Asp Tyr
20

<210> 241

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fa

<220>

<221> MOD_RES

<222> (4)..(4)

<223> X is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (14)..(14)

<223> X is episilon-aminocaproic acid

<400> 241

Lys Asp Pro Xaa Gly Glu Asp Val Val Cys Cys Ser Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 242

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (4)..(4)

<223> X is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (14)..(14)

<223> X is episilon-aminocaproic acid

<400> 242

Lys Asp Pro Xaa Gly Glu Glu Val Glu Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 243

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (7)..(7)

<223> F is D form

<220>

<221> MOD_RES

<222> (4)..(4)

<223> X is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (14)..(14)

<223> X is episilon-aminocaproic acid

<400> 243

Lys Asp Pro Xaa Gly Asp Phe Val Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 244

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (14)..(14)

<223> X is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (6)..(6)

<223> D is D form

<220>

<221> MOD_RES

<222> (9)..(9)

<223> D is D form

<220>

<221> MOD_RES

<222> (4)..(4)

<223> X is episilon-aminocaproic acid

<400> 244

Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 245

<211> 17

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (4)..(4)

<223> X is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (14)..(14)

<223> X is episilon-aminocaproic acid

<400> 245

Lys Asp Pro Xaa Gly Leu Val Glu Ile Glu Asn Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 246

<211> 16

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (4)..(4)

<223> X is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (12)..(12)

<223> X is episilon-aminocaproic acid

<400> 246

Lys Asp Pro Xaa Gly Ile Glu Thr Asp Ser Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 247

<211> 16

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (4)..(4)

<223> X is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (12)..(12)

<223> X is episilon-aminocaproic acid

<400> 247

Lys Asp Pro Xaa Gly Ile Glu Thr Glu Ser Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 248

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<223> X is episilon-aminocaproic acid

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<222> (14)..(14)

<223> X is episilon-aminocaproic acid

<400> 248

Lys Asp Pro Xaa Gly Leu Glu His Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 249

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (4)..(4)

<223> X is episilon-aminocaproic acid

<220>

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<222> (14)..(14)

<223> X is episilon-aminocaproic acid

<400> 249

Lys Asp Pro Xaa Gly Leu Glu Thr Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 250

<211> 18

<212> PRT

<213> Artificial

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<223> Synthetic peptide substrate

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<400> 250

Lys Asp Pro Xaa Gly Trp Glu His Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 251

<211> 15

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<222> (4)..(4)

<223> X is episilon-aminocaproic acid

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<222> (11)..(11)

<223> X is episilon-aminocaproic acid

<400> 251

Lys Asp Pro Xaa Gly Tyr Val His Asp Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 252

<211> 18

<212> PRT

<213> Artificial

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<223> X is episilon-aminocaproic acid

<400> 252

Lys Asp Pro Xaa Gly Tyr Val His Asp Gly Ile Asn Gly Xaa Pro Lys

1 5 10 15

Gly Tyr

<210> 253

<211> 14

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (4)..(4)

<223> X is episilon-aminocaproic acid

<400> 253

Lys Asp Pro Xaa Gly Tyr Val His Asp Ala Pro Lys Gly Tyr
1 5 10

<210> 254

<211> 14

<212> PRT

<213> Artificial

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<223> Synthetic peptide substrate

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<223> X is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (14)..(14)

<223> X is episilon-aminocaproic acid

<400> 254

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1 5 10

<210> 255

<211> 13

<212> PRT

<213> Artificial

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<223> Synthetic peptide substrate

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<222> (4)..(4)

<223> 4-aminobutyric acid

<400> 255

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1 5 10

<210> 256

<211> 13

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<222> (4)..(4)

<223> Xis 8-aminocaprylic acid

<400> 256

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1 5 10

<210> 257

<211> 20

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<223> X is 4-aminobutyric acid

<220>

<221> MOD_RES

<222> (16)..(16)

<223> X is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (14)..(14)

<223> F is D form

<220>

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<222> (7)..(7)

<223> E is D form

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<222> (10)..(10)

<223> L is D form

<400> 257

Lys Asp Pro Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
1 5 10 15

Pro Lys Gly Tyr
20

<210> 258

<211> 16

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<222> (4)..(4)

<223> X is episilon-aminocaproic acid

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<222> (12)..(12)

<223> X is episilon-aminocaproic acid

<400> 258

Lys Asp Pro Xaa Gly Ile Glu Pro Asp Ser Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 259

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<222> (4)..(4)

<223> X is episilon-aminocaproic acid

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<221> MOD_RES

<222> (14)..(14)

<223> X is episilon-aminocaproic acid

<400> 259

Lys Asp Pro Xaa Gly Pro Leu Gly Ile Ala Gly Ile Gly Xaa Pro Lys

1 5 10 15

Gly Tyr

<210> 260

<211> 19

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<221> MOD_RES

<222> (4)..(4)

<223> X is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (15)..(15)

<223> X is episilon-aminocaproic acid

<400> 260

Lys Asp Pro Xaa Gly Ser Gln Asn Tyr Pro Ile Val Gln Gly Xaa Pro
1 5 10 15

Lys Gly Tyr